



*Sustainable solutions for our future*



***Residential Ionization System  
Model # R-40***



***Economical Model — handles up to 40,000 gallons***

# R-40 IONIZER SPECIFICATION SHEET

## Water Specifications

**POOL SIZE:** up to 40,000 U.S. gallons

**IONIZATION METHOD:** electrolysis of copper or copper/silver alloy electrodes

**ELECTRODE CHAMBER:** 2" schedule 40 tee with bushings for 2" or 1 1/2" PVC pipe

**ELECTRODE:** one set 3" long, comprised of copper (CLE-02)  
or optionally available 90/10 copper/silver alloy (CLE-51)

<b>HEAD LOSS:</b>	<b>Flow Rate</b>	<b>Total Head Loss (psi)</b>
	25 gpm	0.06 psi
	50 gpm	0.21 psi

**Hydrostatic Pressure:** Maximum Recommended Pressure: 50PSI

**Ion Production:** With the output set to: 250mA this ionizer produces 179mg of copper ions per hour  
500mA this ionizer produces 358mg of copper ions per hour

These measurements were made with the following conditions:

Electrode Used: CLE-02

Water Temperature: 72.7 °F

Total Chlorine: 0

pH: 7.45

TDS: 347 mg/L

Hardness: 215 mg/L

Total Alkalinity: 85 mg/L

## Electrical Specifications

**INPUT VOLTAGE:** 115 VAC or 230 VAC, manually switch from inside of control box

**INPUT CURRENT:** 220 mA rms at 115 VAC  
110 mA rms at 230 VAC

**INPUT POWER:** 13 Watts

**OUTPUT VOLTAGE:** < 20 VDC

**OUTPUT CURRENT:** Adjustable in 6 increments from 0 TO 500mA DC

**CIRCUIT PROTECTION:** internal fuse and input MOV line surge protection

**FUSES:** 1 ea .25 Amp Fast Acting, Cartridge Style, 250VAC, 5x20mm  
Radio Shack Part Number 270-1046 (use 270-1061 if other is unavailable)

## Mechanical Specifications

**ENCLOSURE:** weather resistant NEMA 4 rated high impact corrosion resistant thermoplastic with hinged polycarbonate cover, includes mounting brackets

**ENCLOSURE DIMENSIONS:** 6.54" x 6.54" x 4.82"

**SHIPPING WEIGHT:** 7.6 lbs

**CARTON DIMENSIONS:** 12" x 11" x 6"

## Other Specifications

**OPERATING TEMPERATURE RANGE:** 32 to 110 degrees Fahrenheit

**WARRANTY:** 5 years, parts and labor - excluding electrodes

